As of 1/29/2004

Upper Klamath Basin Science Workshop Agenda
Plenary Session
February 3, 2004 (Day 1)
Water and Water Related Resources

	Topic	Speaker	Affiliation
7:15-8:00	Registration		
8:00-8:15	Meeting Overview & Objectives	Dennis Lynch	US Geological Survey
8:15-8:35	Upcoming Federal Investment in the Upper Klamath Basin	Jason Peltier	Department of the Interior Deputy Assistant Secretary Water and Science
8:35-8:50	Role of Science in Resource Management	Rip Shively Shannon Cunniff	US Geological Survey Bureau of Reclamation
8:50-9:10	Geographic Context of Upper Klamath Basin and Data Needs	John Ritter	Oregon Institute of Technology
	Agency & Stakeholder Perspectives		
9:10-9:40	Overview of National Research Council (NRC) Report and the Relative Importance of Identified Science Needs	Bill Lewis	Univ of Colorado & NRC Chair, Committee on Endangered & Threatened Fishes in the Klamath River Basin
9:40-9:55	Q&A and Other Needs		
Bureau of Reclamation			
9:55-10:15	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Dave Sabo	Bureau of Reclamation
10:15-10:20	Overview of Conservation Implementation Program…Purpose, Status, and Planned Actions		
10:20-10:30	Q&A and Other Needs		
10:30-10:45	Break		
Fish and Wildlife Service			
10:45-11:05	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Curt Mullis	Fish and Wildlife Service
11:05-11:15	Q&A and Other Needs		
The Klamath Tribes			
11:15-11:35	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Allen Foreman (invited)	The Klamath Tribes
11:35-11:45	Q&A and Other Needs		
11:45-1:00	**Lunch (catered lunch with lunch-time presentations**		

	Topic	Speaker	Affiliation
Bureau of Land Management			
12:15-12:35	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Jon Raby	Bureau of Land Management
12:35-12:45	Q&A and Other Needs		
12:45-1:00	**Lunch time stretch break**		
Hatfield Upper Basin Working Group			
1:00-1:30	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Marshall Staunton Mark Stern	Hatfield Upper Basin Working Group
1:30-1:40	Q&A and Other Needs		
Klamath Water Users			
1:40-2:10	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Steve Kandra	Klamath Water Users Association
2:10-2:20	Q&A and Other Needs		
State of Oregon (Oregon Water Resources Department & Oregon Department of Fish & Wildlife)			
2:20-2:50	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Barry Norris Chip Dale	State of Oregon
2:50-3:10	Q&A and Other Needs		
State of California (Fish and Game and/or DWR)			
Unable to Attend	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Don Koch	State of California
	Q&A and Other Needs		
Forest Service			
3:10-3:30	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Richard Ford	Forest Service
3:30-3:40	Q&A and Other Needs		
3:40-3:50	**Break**		
NRCS			
3:50-4:10	Upper Klamath Basin Role Related to Water, Fish, and Other Water-Related Resources and the Information, Data, or Solutions We Wish We Had to More Effectively Fulfill That Role	Kevin Conroy	Natural Resources Conservation Service
4:10-4:20	Q&A and Other Needs		
4:20-4:50	Overview of Independent Multidisciplinary Science Team Report	Stan Gregory	Oregon State University
4:50-5:00	Q&A and Other Needs		
5:00-5:20	Open Discussion		

Upper Klamath Basin Science Workshop Agenda
Sucker Ecology – Session A (Day 2)
February 4, 2004
Water and Water Related Resources

	Topic	Speaker	Affiliation
8:00-8:10	Opening Remarks, Introductions	Rip Shively	US Geological Survey
Larval Sucker Ecology			
8:10-8:25	Early Studies on Larval Sucker Ecology	Larry Dunsmoor	The Klamath Tribes
8:25-8:35	Q&A		
8:35-9:05	The First Month of Life of Larval Suckers in the Williamson River - Upper Klamath Lake System	Mike Cooperman	Oregon State University
9:05-9:15	Q&A		
9:15-9:30	Monitoring Use of a Restored Riverine Wetland by Endemic Larval Suckers	John Crandall	The Nature Conservancy
9:30-9:40	Q&A		
9:40-10:00	**Break**		
10:00-10:15	Overview of the Proposed Study to Monitor Adult Sucker Movement Above Chiloquin Dam and Larval Sucker Emigration From the Lower Williamson River	Torrey Tyler	US Geological Survey
10:15-10:20	Q&A		
10:20-11:45	Open Discussion		
11:45-1:00	**Lunch (On Your Own)**		
Juvenile Sucker Ecology			
1:00-1:50	Sequential Stock-Recruitment in Complex Life Cycles and the Enigma of Teleost Conservation or Why We Have To Understand Larvae and Juveniles.	Doug Markle	Oregon State University
1:50-2:05	Q&A		
2:05-2:25	Near-Shore Habitat Use by Endangered Suckers in Upper Klamath Lake	Scott Vanderkooi	US Geological Survey
2:25-2:35	Q&A		
2:35-2:50	**Break**		
2:50-4:30	Open Discussion		
4:30-5:00	Wrap-up of Day's Events with Participants, Facilitators, and Recorders		

Upper Klamath Basin Science Workshop Agenda
Physical Hydrology -- Session B
February4, 2004 (Day 2)
Water and Water Related Resources

	Topic	Speaker	Affiliation
8:00-8:10	Opening Remarks, Introductions	Dennis Lynch	US Geological Survey
8:10-8:35	General Surface-Water Hydrology	Jonathan La Marche	Oregon Water Resources Department
8:35-8:45	**Discussion**		
8:45-9:10	Ground –Water Hydrology	Marshall Gannett	US Geological Survey
9:10-9:20	**Discussion**		
9:20-9:40	Hydroclimate of the Western U.S.	Greg McCabe	US Geological Survey
9:40-9:50	**Discussion**		
9:50-10:05	**Break**		
10:05-10:25	Evapotranspiration	Bill Bidlake	US Geological Survey
10:25-10:40	**Discussion**		
10:40-11:00	Hydrologic Restoration of Wetlands: Opportunities, Unknowns, and Constraints.	Leslie Bach	The Nature Conservancy
11:00-11:15	**Discussion**		
11:15-11:35	Water Supply Forecasting	Phil Pasteris	Natural Resources Conservation Service
11:35-11:50	**Discussion**		
11:50-1:05	**Lunch (On Your Own)**		
1:05-1:25	Estimation of Natural Flows	Tom Perry	Bureau of Reclamation
1:25-1:40	**Discussion**		
1:40-1:55	Quantification of Ground-Water Use	Bruce Fisher	US Geological Survey
1:55-2:10	**Discussion**		
2:10-2:25	Hydrology and Water-Budgets in the Klamath Project Area	Beau Freeman	California Polytechnic State University
2:25-2:40	**Discussion**		
2:40-2:55	**Break**		
2:55-3:10	Water Banking and Water-Supply Enhancement	Phil Graf	Bureau of Reclamation
3:10-3:25	Discussion		
3:25-3:40	Klamath Basin Rangeland Trust Project	Graham Matthews	Graham Matthews and Associates
3:40-3:55	Discussion		
3:55-4:10	A Ground-Water Demonstration Project in Oregon	Mike Zwart	Oregon Water Resources Department
4:10-4:25	Ground-Water Monitoring in the Tule Lake Subbasin	TBD	
4:25-4:40	**Discussion**		
4:40-5:00	Wrap-up and Discussion		

Upper Klamath Basin Science Workshop Agenda
Sucker Ecology (continued) -- Session A
February 5, 2004 (Day 3)
Water and Water Related Resources

	Topic	Speaker	Affiliation
	Adult Sucker Ecology		
8:00-8:30	Overview of the Upper Klamath Lake Adult Sucker Monitoring Program and Current Status of Adult Sucker Populations	Rip Shively	US Geological Survey
8:30-9:00	Q&A		
9:00-9:20	Overview of Adult Sucker Behavior Studies Below Upper Klamath Lake	Rich Piaskowski	Bureau of Reclamation
9:20-9:30	Q&A		
9:30-9:50	Movements and Behavior of Radio-Tagged Adult Lost River and Shortnose Suckers With Respect to Water Quality in Upper Klamath Lake	Barbara Adams	US Geological Survey
9:50-10:00	Q&A		
10:00-10:15	**Break**		
10:15-11:45	Open Discussion		
11:45-1:00	**Lunch (On your Own)**		
Miscellaneous			
1:15-1:35	Overview of Lost River and Shortnose Sucker Spawning Habitat	Mark Buettner	Fish and Wildlife Service
1:35-1:45	Q&A		
1:45-2:05	Overview of the Sucker Genetics in the Klamath Basin and Needs for Future Research	Thomas Dowling	Arizona State University
2:05-2:15	Q&A		
2:15-2:35	Overview of Fish Health Information for Adult Suckers in Upper Klamath Lake and Needs for Future Research	Scott Foott	Fish and Wildlife Service
2:35-2:45	Q&A		
2:45-3:00	**Break**		
3:00-3:20	Long-Term Patterns of Juvenile Sucker Parasite Prevalence and Exotic Fishes in Upper Klamath Lake	David Simon	Oregon State University
3:20-3:30	Q&A		
3:30-5:00	Open Discussion		
5:00-	Wrap-up of day's events with Participants, facilitators, and Recorders		

Upper Klamath Basin Science Workshop Agenda
Water Quality – Session B
February 5, 2004 (Day 3)
Water and Water Related Resources

	Topic	Speaker	Affiliation
8:00-8:10	Opening Remarks, Introductions, etc.	Dennis Lynch	US Geological Survey
8:10-8:25	History of UKL and Watershed Derived from Lake Cores	Joe Eilers	JC Headwaters
8:25-8:40	Open Discussion		
8:40-8:55	External Loading and Sources of P and N to UKL	Jake Kann	Aquatic Ecosystem Sciences, LLC
8:55-9:10	Open Discussion		
9:10-9:25	Natural and Anthropogenic Sources of Watershed Nutrients	Steve Kirk	Oregon Department of Environmental Quality
9:25-9:40	Open Discussion		
9:40-10:00	**Break**		
10:00-10:15	Sprague River Water Quality-- Nutrients and Temperature	Joe Eilers	JC Headwaters
10:15-10:30	Open Discussion		
10:30-10:45	Historical Losses of P and N from UKL Wetlands	Dan Snyder	US Geological Survey
10:45-11:00	Open Discussion		
11:00-11:15	Wetland Restoration – Water Quality Implications	Allison Aldous	The Nature Conservancy
11:15-11:30	Open Discussion		
11:30-11:50	Rise of Superabundant Cyanobacteria (Aphanizomenon) Populations in UKL with Progressive Loss of Wetlands	Stan Geiger or Eric Henry	Oregon State University, Department of Botany and Plant Pathology
11:50-12:00	Discussion		
12:00-1:15	**Lunch (On Your Own)**		
1:15-1:30	Internal loading of P and N in UKL (In-Lake Observations)	Jake Kann	Aquatic Ecosystem Sciences, LLC
1:30-1:45	Open Discussion		
1:45-2:00	Internal loading of P in UKL (Lab Experiments)	Tammy Wood	US Geological Survey
2:00-2:15	Open Discussion		
2:15-2:30	Preliminary Hydrodynamic Results for UKL and Future Science Needs	Ralph Cheng	US Geological Survey
2:30-2:45			
2:45-3:15	**Break**		
3:15-3:35	DO Dynamics in UKL (Biological and Physical Processes)	Tammy Wood	US Geological Survey
3:35-3:50	Open Discussion		
3:50-4:05	Klamath River Water Quality -- Link River Dam to the Pacific Ocean	Mike Deas	Watercourse Engineering, Inc.
4:05-4:20	Open Discussion		
4:20-4:35	Klamath River Research Needs	Sharon Campbell	US Geological Survey
4:35-4:50	Open Discussion		
4:50-5:00	Wrap-up and Discussion of Friday's Agenda	Dennis Lynch	US Geological Survey

Upper Klamath Basin Science Workshop Agenda
Plenary Session
February 6, 2004 (Day 4)
Water and Water Related Resources

	Topic	Speaker	Affiliation
8:00-9:15	Discussion of the Synthesis and Reporting of Identified Needs to the Regional Directors and All Participants	Rip Shively Dennis Lynch Wedge Watkins Dan Fritz	US Geological Survey US Geological Survey Bureau of Land Management Bureau of Reclamation
9:15-9:30	Description of Participant Involvement in Prioritizing Science Needs and How Information will be Reported and Used	Chuck Hennig	Bureau of Reclamation
9:30-10:30	**Break and Time for Participants to Prioritize Identified Science Needs (i.e., vote)***		
10:30-11:00	Next Steps	Shannon Cunniff Dennis Lynch	Bureau of Reclamation US Geological Survey
11:00-11:15	Workshop Evaluation	Dennis Lynch	US Geological Survey
11:15	Adjourn. (Regional Directors will remain after the workshop to talk informally with participants)		

*This compilation of Upper Klamath Basin (UKB) science and technology needs, and the results of priority votes for these needs, represent input from various perspectives (UKB resource manager, UKB technical, UKB stakeholder, and independent subject matter experts). This information is intended only as one source of input to assist those agencies and organizations responsible for resource management in the UKB to consider for water, fish, and water-related resource planning and actions.

These needs **do not** commit any agency or organization to take actions to address these needs. Actual priority and actions will be determined by the agency or organization with the authority or responsibility associated with the actions. Decisions by the responsible agency or organization to act on the needs in this report will depend on authorities, availability of staff, funding, affordability, other information and considerations that could affect decisions, and the priority of other competing needs within the agency.